# Thinkpad on Linux

## Remap keys

I am using this to remap keys for faster navigation. When you pres [Fn] key, the cursor arrows are mapped as follows:

```
      [ PGUP ]
[HOME][PGDOWN][END]
```

~/.Xmodmap

```
keycode 171 = End
keycode 172 = Next
keycode 173 = Home
keycode 174 = Prior
```

~/.xprofile

```
#tested on ThinkPad x201
xmodmap -e "keycode 174 = Prior"
xmodmap -e "keycode 172 = Next"
xmodmap -e "keycode 173 = Home"
xmodmap -e "keycode 171 = End"
```

## ThinkFan

/etc/modprobe.d/options.conf

```
options thinkpad_acpi fan_control=1 fan="level disengaged" beep=6
```

Vyvazenej konfigurak, pokud to jde, tak je tichej. Ale pokud to je potreba, tak zacne efektivne chladit s nejmensima rozumnejma otackama. Nemelo by to pri bezny praci delat takovy ty narazy, ze je nejdriv vyplej a pak se zas pusti naplno. Nicmene narozdil od defaultni konfigurace umoznuje pustit vetrak na plny otacky pokud dosahne teplota 90C, takze by se to nemelo prehrejvat jako v defaultu.

/etc/thinkfan.conf

```
(0,     0,      40)
(5,     32,     60)
(6,     59,     70)
(7,     69,     95)
```

```
("level disengaged",    90,     32767)
```

```
echo thinkpad_acpi >> /etc/modules
modprobe thinkpad_acpi
systemctl enable thinkfan
systemctl start thinkfan
```

# Modem

- Pro Vodafone stáhnout tyto oladače a rozbalit do adresáře `/lib/firmware/gobi`
- Nainstalovat balicky `apt-get install gobi-loader modemmanager`
- Nepridavat 05c6:9205 (z lsusb) do /usr/lib/udev/rules.d/60-gobi.rules !!! je to USB ID po nahrani FW, pred nahranim to ma 05c6:9204 a to uz tam je. Pokud se tam nahraje i to prvni, tak to dokola loaduje fw a nenabehne to.
- Restartovat pocitac
- Po pripojeni skrz networkmanager lze nainstalovat a pouzit program modem-manager-gui k posilani a prijmani SMS, USSD kodu a sledovani detailu pripojeni

### odkazy a drivery pro ostatni operatory

- http://www.thinkwiki.org/wiki/Qualcomm_Gobi_2000
- http://support.lenovo.com/us/en/downloads/ds001302

# Wifi

Kdyz zamrzne, jde restartovat takhle. I kdyz vetsinou stejne zamrzne znova:

```
echo 1 > /sys/bus/pci/devices/0000\:02\:00.0/remove
echo 1 > /sys/bus/pci/rescan
```

Udajne pomaha zakazat wake on lan.

# Thinklight

Dame vsem prisup k LEDkam:

/etc/udev/rules.d/10-thinklight.rules

```
SUBSYSTEM=="leds", ACTION=="add", RUN+="/bin/chmod -R o=u,g=u /sys%p"
SUBSYSTEM=="leds", ACTION=="change", ENV{TRIGGER}!="none",
RUN+="/bin/chmod -R o=u,g=u /sys%p"
```

Rebootneme nebo reloadneme `udevadm control –reload-rules; udevadm trigger –verbose`

Potom vytvorime tenhle skript s pravama pro spusteni:

/usr/local/bin/thinklight

```
#!/bin/sh
led='/sys/class/leds/tpacpi::thinklight/brightness';
state=$(cat "$led");
[ "$state" == 0 ] && new=255 || new=0;
echo "${1:-$new}" > "$led";
```

Muzem pouzivat tyhle prikazy

- `thinklight` - vypne/zapne svetylko (idealni jako ikonka na listu)
- `thniklight 0` - vypne
- `thniklight 255` - zapne

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